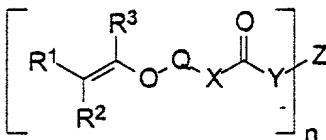


We Claim:

1. A die attach adhesive comprising
- (a) 5 to 30 weight percent of a mixture of a vinyl ether compound
- 5 containing polar functionality and an electron acceptor compound,
- (b) 0.01 to 10.0 weight percent of a free-radical initiator or photoinitiator,
- (c) 70 to 95 weight percent of a conductive or nonconductive filler, to a total of 100 weight percent,
- 10 in which the vinyl ether has the structure



in which

n is 1 to 6;

R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> are hydrogen, methyl or ethyl;

- 15 Q is an alkyl or cycloalkyl linear or branched chain having 1 to 12 carbon atoms; an alkylenoxy chain having 1 to 12 carbon atoms, or aromatic or fused aromatic ring having 3 to 10 carbon atoms and optionally containing the heteroatoms O, N or S;

- X and Y are independently O, NR<sup>1</sup>, or S, with the proviso that both X and Y cannot be oxygen or sulfur;
- 20

Z is a branched or linear alkane, which may contain cyclic moieties, a siloxane, a polysiloxane, a C<sub>1</sub> to C<sub>4</sub> alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic, or heteroaromatic group.

2. The die attach adhesive according to claim 1 in which

$R^1$ ,  $R^2$ , and  $R^3$  are hydrogen,

Q is a linear or branched chain alkyl having 1 to 12 carbon atoms;

and

5 Z is a linear or branched chain alkyl having up to 36 carbon atoms.

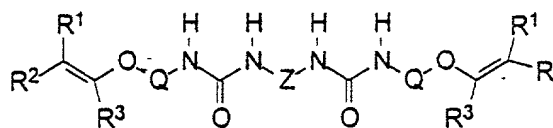
3. The die attach adhesive according to claim 1 in which the filler is a  
conductive filler.

10 4. The die attach adhesive according to claim 3 in which the filler is  
silver.

5. The die attach adhesive according to claim 1 in which the filler is  
tetrafluoroethylene.

15

6. A vinyl ether compound having the structure:



20 in which

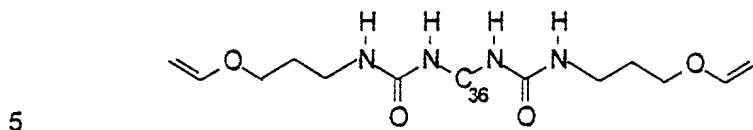
$R^1$ ,  $R^2$ , and  $R^3$  are independently hydrogen, a methyl group, or an  
ethyl group;

Q is an alkyl or alkylenoxy linear or branched chain having 1 to 12  
carbon atoms;

25 Z is a branched or linear alkane, which may contain cyclic moieties, a  
siloxane, a polysiloxane, a  $C_1$  to  $C_4$  alkoxy-terminated siloxane or

polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic, or heteroaromatic group.

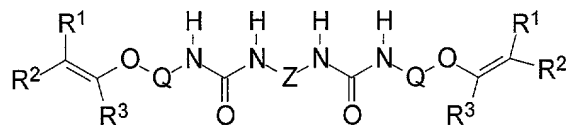
7. The vinyl ether compound according to claim 5 having the structure



in which C<sub>36</sub> is a mixture of isomers of a 36 carbon linear or branched chain.

8. An adhesive composition containing the vinyl ether compound according to claim 5, a free radical initiator or photoinitiator, and optionally a
- 10 conductive or nonconductive filler.

6. The vinyl ether compound according to claim 9 having the structure:



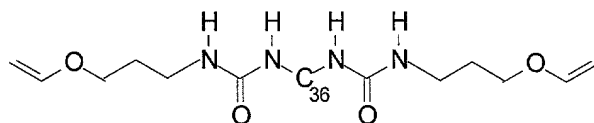
in which

R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> are independently hydrogen, a methyl group, or an ethyl group;

Q is an alkyl or alkyleneoxy linear or branched chain having 1 to 12 carbon atoms;

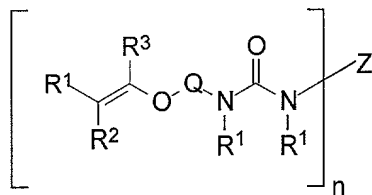
Z is a branched or linear alkane, which may contain cyclic moieties, a siloxane, a polysiloxane, a C<sub>1</sub> to C<sub>4</sub> alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic, or heteroaromatic group.

7. The vinyl ether compound according to claim 9 having the structure



in which C<sub>36</sub> is a mixture of isomers of a 36 carbon linear or branched chain.

9. A vinyl ether compound having the structure:



in which

n is 1 to 6;

R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> are hydrogen, methyl or ethyl;

Q is an alkyl or cycloalkyl linear or branched chain having 1 to 12 carbon atoms; an alkylenoxy chain having 1 to 12 carbon atoms, or aromatic or fused aromatic ring having 3 to 10 carbon atoms and optionally containing the heteroatoms O, N or S;

Z is a branched or linear alkane, which may contain cyclic moieties, a siloxane, a polysiloxane, a C<sub>1</sub> to C<sub>4</sub> alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic, or heteroaromatic group.